

WEST

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L1: Entry 54 of 55

File: DWPI

Oct 10, 1974

DERWENT-ACC-NO: 1975-17041W

DERWENT-WEEK: 197510

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TITLE: Crushed sugar beet juice extractor - improved by fitting a vertical insert inside pulp filter

PATENT-ASSIGNEE: SUGAR IND RES INST (SUGB)

PRIORITY-DATA: 1972SU-1816908 (July 31, 1972)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|-------------|------------------|----------|-------|----------|
| SU 424881 A | October 10, 1974 | | 000 | |

INT-CL (IPC): C13D 1/10

ABSTRACTED-PUB-NO: SU 424881A

BASIC-ABSTRACT:

Continuous equipment for juice extraction from crushed sugar beet and similar materials has been claimed in Parent Certificate No. 133418. Now the extraction process is accelerated by fitting an additional insert vertically inside the screen insert. The lower end of the former is located in the conical portion of the latter, while the upper end is attached to the cover of the latter. The equipment comprises cylindro-conical casing, screen insert, additional insert and manifold for the tangential admission of mixed stock and liquor. The top of the casing is closed by detachable cover fitted with outlet manifold. Screen shaped like the casing, provides annular space for juice removal.

Screen is closed by detachable cover. The lower end of additional insert is sited in the conical section of insert, while the upper end is attached to cover. The conical section of casing is completed by outlet. Crushed beet enters space at high speed. Additional insert reduces the max. radial transfer distance for the juice towards screen and thus improves extraction. A pulp-juice ratio of 1:1:5 is readily separated.

ABSTRACTED-PUB-NO: SU 424881A

EQUIVALENT-ABSTRACTS:

DERWENT-CLASS: D17

CPI-CODES: D06-B;

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L1: Entry 45 of 55

File: DWPI

Jul 19, 1994

DERWENT-ACC-NO: 1994-280209

DERWENT-WEEK: 199435

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TITLE: Sugar and dried pulp from sugar beet - with leaves removed and pressed to form pulp which is mixed with residual molasses and dried using gas from burner and coal boilers.

INVENTOR: GERARD, K

PATENT-ASSIGNEE: IRISH SUGAR RES & DEV LTD (IRIS)

PRIORITY-DATA: 1994BE-0000339 (March 31, 1994)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---------------|---------------|----------|-------|------------|
| BE 1006318 A6 | July 19, 1994 | | 012 | C13D000/00 |

APPLICATION-DATA:

| PUB-NO | APPL-DATE | APPL-NO | DESCRIPTOR |
|--------------|----------------|----------------|------------|
| BE 1006318A6 | March 31, 1994 | 1994BE-0000339 | |

INT-CL (IPC): C13D 0/00; C13F 0/00

ABSTRACTED-PUB-NO: BE 1006318A

BASIC-ABSTRACT:

Pulp and sugar from sugar beet is by: (a) preparing beet for treatment (1), cutting treated beet (3) and extracting saccharose to produce raw juice and pulp (4); (b) pressing (6) pulp to eliminate excess water; (c) purifying (8) raw juice; (d) evaporating (9) water for purified juice to produce virgin syrup; (e) refining (10) syrup to form white sugar (11) and beet molasses (12); (f) sepg (13) molasses (12) into sugar fragments (15) and residual molasses (14); (g) mixing (19) pressed pulp (7) and residual molasses (14) to form pulp mixt (20); (h) drying pulp (20) at min of 750 deg C using mixt of gas from combustion chambers (51,52) of drying ovens (30,31) and gas from separate boilers (40,41,42).

Leaves are removed from beets, macerated and mixed with water to form a thick paste which is pumped (via 2) into a pulp mixer (19) via a sieve, and pref a centrifuge, to remove excess water. Heating gas from at least two coal boilers (40,41,42) is directed to the ovens of driers (30,31) without passing through economisers. At least two driers (30,31) are used, and the pulp is divided between them. One of the driers can be supplied with heating gas only to dry the pulp.

USE/ADVANTAGE - Used to prepare sugar, and pulp for animal feed from sugar beet. Improved sugar yield and redn in energy consumption by use of only heating gas from coal burners at low prodn vol are attained. Also, combination of heating gas from coal fired boilers and combustion chambers optimises energy efficiency.

ABSTRACTED-PUB-NO: BE 1006318A

EQUIVALENT-ABSTRACTS:

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L1: Entry 55 of 55

File: DWPI

DERWENT-ACC-NO: 1971-00336S

DERWENT-WEEK: 197101

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TITLE: High energy dried sugar beet and protein - feed stuff for animals

PATENT-ASSIGNEE: WILLER, R ET AL (WIL I)

PRIORITY-DATA: 1969DD-0142392 (July 11, 1969)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|------------|----------|----------|-------|----------|
| DD 77408 A | 1/1970 | | 000 | |

INT-CL (IPC): A23K 0/00

ABSTRACTED-PUB-NO: DD 77408A

BASIC-ABSTRACT:

The sugar beet is cut into pieces, boiled with sugar beet pulp juice and separated from the juice. The sugar beet pieces are compressed to partly remove sugar and produce the sugar pulp juice, and are finally dried to produce a high energy dry feed. Part of the sugar beet pulp juice is further processed to give protein feed and the rest is recycled for use in boiling the sugar beet.

ABSTRACTED-PUB-NO: DD 77408A

EQUIVALENT-ABSTRACTS:

DERWENT-CLASS: C03 D13

CPI-CODES: C04-B04A; C04-D01; C12-L09; D03-G;